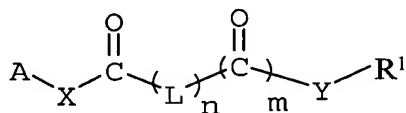


**[CLAIMS]**

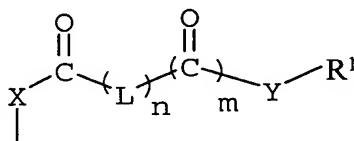
We claim

1. An ink jet recording material comprising a support and at least  
 5 one ink receiving layer comprising a binder and a compound  
 according to formula (I):

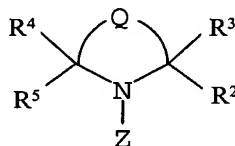


formula (I)

wherein



is exclusive of a nitrogen-nitrogen or nitrogen-oxygen bond, and  
 15 wherein A is represented by following formula :



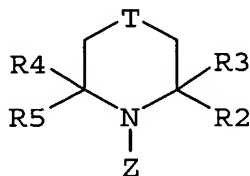
wherein,

Q represents the necessary atoms to complete a five- or six-  
 20 membered ring;  $\text{R}^2$  to  $\text{R}^5$  independently represent a substituted or  
 unsubstituted C1 to C6 aliphatic group; Z is selected from the  
 group consisting of hydrogen, a substituted or unsubstituted  
 aliphatic group, an acyl group, an oxy radical, a hydroxyl group,  
 an alkoxy group and an acyloxy group; L is a divalent linking  
 25 group linked to a carbonyl group; X and Y are independently  
 selected from an oxygen and  $\text{NR}^6$ , wherein  $\text{R}^6$  is selected from the  
 group consisting of hydrogen, a substituted or unsubstituted,  
 saturated or unsaturated aliphatic group, a substituted or  
 unsubstituted aromatic group, and a substituted or unsubstituted

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heteroaromatic group; X is linked to A via one of the atoms of Q;  
R<sup>1</sup> represents a non-aromatic moiety comprising at least two  
hydroxyl groups; and n and m independently represent 1 or 0.

- 5 2. An ink jet material according to claim 1 wherein A in said  
compound according to formula (I) is represented by :

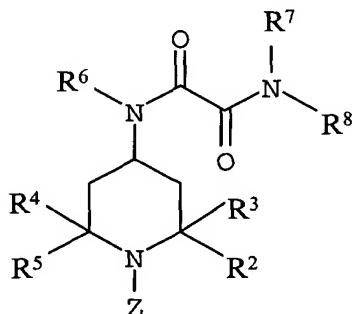


wherein T represents a carbon, a silicon, a phosphorus or a  
nitrogen atom, which is linked to X by a single or a double  
10 bound.

3. An ink jet recording material according to claim 2 wherein R<sup>6</sup> and  
R<sup>7</sup> are both a hydrogen atom.
- 15 4. An ink jet recording material according to claim 3 wherein R<sup>8</sup> is  
selected from the group consisting of optionally substituted  
polyhydroxy tetrahydro-pyrans, optionally substituted polyhydroxy  
tetrahydrofurans, polyhydroxy straight chain alkyl groups,  
polyhydroxy branched alkyl groups, polyhydroxy alkyl groups  
20 substituted with optionally substituted tetrahydropyran groups  
and polyhydroxy alkyl groups substituted with optionally  
substituted tetrahydrofuran groups.
5. An ink jet recording material according to claims 4 wherein said  
25 recording material further comprises a pigment in at least one  
ink receiving layer.
6. An ink jet recording material according to claim 5 wherein said  
pigment is an inorganic pigment.

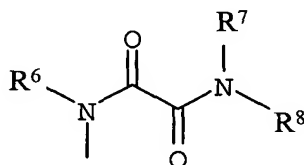
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7. An ink jet recording material according to claim 6 wherein said inorganic pigment is chosen from the group consisting of silica, alumina, alumina hydrate, and aluminum trihydroxide.
- 5 8. An ink jet recording material according to claim 7 wherein said binder is a polyvinyl alcohol.
9. An ink jet recording material according to claim 8 wherein the ink receiving layer is a double layer and the compound according to general formula (I) is incorporated in the upper ink receiving layer.
- 10 10. An ink jet recording material comprising a support and at least one ink receiving layer comprising a binder and a compound according to formula (III):
- 15



formula (III)

wherein,



is exclusive of a nitrogen-nitrogen or nitrogen-oxygen bond, and wherein

- 25 R<sup>2</sup> to R<sup>5</sup> independently represent a substituted or unsubstituted C1 to C6 aliphatic group;

Z is selected from the group consisting of hydrogen, a substituted or unsubstituted aliphatic group, an acyl group, an

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oxy radical, a hydroxyl group, an alkoxy group and an acyloxy group; R<sup>6</sup> is selected from the group consisting of hydrogen, a substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted aromatic group, and a substituted or unsubstituted heteroaromatic group; R<sup>7</sup> represents a non-aromatic moiety comprising at least two hydroxyl groups; R<sup>8</sup> is selected from the group consisting of hydrogen, substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted aromatic group.

11. An ink jet recording material according to claim 10 wherein R<sup>6</sup> and R<sup>7</sup> are both a hydrogen atom.

12. An ink jet recording material according to claim 11 wherein R<sup>8</sup> is selected from the group consisting of optionally substituted polyhydroxy tetrahydro-pyrans, optionally substituted polyhydroxy tetrahydrofurans, polyhydroxy straight chain alkyl groups, polyhydroxy branched alkyl groups, polyhydroxy alkyl groups substituted with optionally substituted tetrahydropyran groups and polyhydroxy alkyl groups substituted with optionally substituted tetrahydrofuran groups.

13. An ink jet recording material according to claim 12 wherein said recording material further comprises a pigment in at least one ink receiving layer.

14. An ink jet recording material according to claim 13 wherein said pigment is an inorganic pigment.

15. An ink jet recording material according to claim 14 wherein said inorganic pigment is chosen from the group consisting of silica, alumina, alumina hydrate, and aluminum trihydroxide.

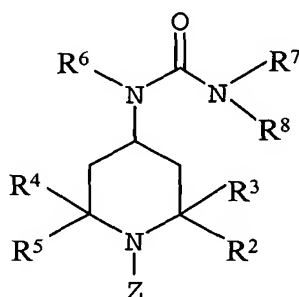
16. An ink jet recording material according to claims 15 wherein said binder is a polyvinyl alcohol.

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17. An ink jet recording material according to claim 16 wherein the ink receiving layer is a double layer and the compound according to general formula (I) is incorporated in the upper ink receiving layer.

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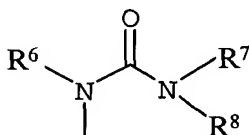
18. An ink jet recording material comprising a support and at least one ink receiving layer comprising a binder and a compound according to formula (IV):



10

formula (IV)

wherein,



15

is exclusive of a nitrogen-nitrogen or nitrogen-oxygen bond, and wherein

R<sup>2</sup> to R<sup>5</sup> independently represent a substituted or unsubstituted C1 to C6 aliphatic group;

20

Z is selected from the group consisting of hydrogen, a substituted or unsubstituted aliphatic group, an acyl group, an oxy radical, a hydroxyl group, an alkoxy group and an acyloxy group; R<sup>6</sup> is selected from the group consisting of hydrogen, a substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted aromatic group, and a substituted or unsubstituted heteroaromatic group; R<sup>7</sup> represents

25

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a non-aromatic moiety comprising at least two hydroxyl groups;  $R^8$  is selected from the group consisting of hydrogen, substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted aromatic group.

5

19. An ink jet recording material according to claim 18 wherein  $R^6$  and  $R^7$  are both a hydrogen atom.

10

20. An ink jet recording material according to claim 19 wherein  $R^8$  is selected from the group consisting of optionally substituted polyhydroxy tetrahydro-pyrans, optionally substituted polyhydroxy tetrahydrofurans, polyhydroxy straight chain alkyl groups, polyhydroxy branched alkyl groups, polyhydroxy alkyl groups substituted with optionally substituted tetrahydropyran groups and polyhydroxy alkyl groups substituted with optionally substituted tetrahydrofuran groups.

15

21. An ink jet recording material according to claim 20 wherein said recording material further comprises a pigment in at least one ink receiving layer.

20

22. An ink jet recording material according to claim 21 wherein said pigment is an inorganic pigment.

25

23. An ink jet recording material according to claim 22 wherein said inorganic pigment is chosen from the group consisting of silica, alumina, alumina hydrate, and aluminum trihydroxide.

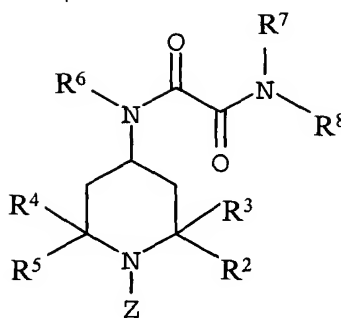
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24. An ink jet recording material according to claim 23 wherein said binder is a polyvinyl alcohol.

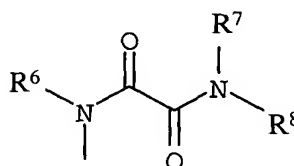
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25. An ink jet recording material according to claim 24 wherein the ink receiving layer is a double layer and the compound according to general formula (I) is incorporated in the upper ink receiving layer.

26. A compound according to following formula:



wherein,



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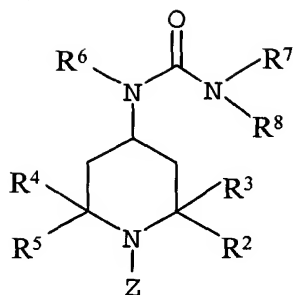
is exclusive of a nitrogen-nitrogen or nitrogen-oxygen bond, and wherein

R<sup>2</sup> to R<sup>5</sup> independently represent a substituted or unsubstituted C1 to C6 aliphatic group;

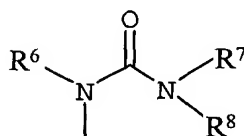
10 Z is selected from the group consisting of hydrogen, a substituted or unsubstituted aliphatic group, an acyl group, an oxy radical, a hydroxyl group, an alkoxy group and an acyloxy group; R<sup>6</sup> is selected from the group consisting of hydrogen, a substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted aromatic group, and a substituted or unsubstituted heteroaromatic group; R<sup>7</sup> represents a non-aromatic moiety comprising at least two hydroxyl groups; R<sup>8</sup> is selected from the group consisting of hydrogen, substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted aromatic group.

20

27. A compound according to following formula:



wherein,



- 5 is exclusive of a nitrogen-nitrogen or nitrogen-oxygen bond, and  
 wherein  
 $R^2$  to  $R^5$  independently represent a substituted or unsubstituted  
 C1 to C6 aliphatic group;  
 Z is selected from the group consisting of hydrogen, a  
 10 substituted or unsubstituted aliphatic group, an acyl group, an  
 oxy radical, a hydroxyl group, an alkoxy group and an acyloxy  
 group;  $R^6$  is selected from the group consisting of hydrogen, a  
 substituted or unsubstituted, saturated or unsaturated aliphatic  
 group, a substituted or unsubstituted aromatic group, and a  
 15 substituted or unsubstituted heteroaromatic group;  $R^7$  represents  
 a non-aromatic moiety comprising at least two hydroxyl groups;  $R^8$   
 is selected from the group consisting of hydrogen, substituted or  
 unsubstituted, saturated or unsaturated aliphatic group, a  
 substituted or unsubstituted aromatic group.